

L4 ANSWER 1 OF 6 USPATFULL
 AN 2002:23306 USPATFULL
 TI DNA sequence useful for the production of **polyhydroxyalkanoates**
 IN Kruger, Niels, Billerbeck, GERMANY, FEDERAL REPUBLIC OF
 Steinbuchel, Alexander, Altenberje, GERMANY, FEDERAL REPUBLIC OF
 PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
 PI US 37543 E1 20020205
 US 5750848 19980512 (Original)
 AI US 2000-570842 20000512 (9)
 US 1996-700576 19960813 (Original)
 DT Reissue
 FS GRANTED
 LN.CNT 1766
 INCL INCLM: 800/281.000
 INCLS: 435/193.000; 435/252.340; 435/320.100; 435/419.000; 435/468.000;
 435/471.000; 435/183.000; 435/252.300; 435/253.300; 530/350.000;
 536/023.200; 536/023.600
 NCL NCLM: 800/281.000
 NCLS: 435/193.000; 435/252.340; 435/320.100; 435/419.000; 435/468.000;
 435/471.000; 435/183.000; 435/252.300; 435/253.300; 530/350.000;
 536/023.200; 536/023.600
 IC [7]
 ICM: C12N001-21
 ICS: C12N005-14; C12N009-10; C12N015-31; C12N015-52; C12N015-78;
 C12N015-82; C12N001-20; A01H005-00
 EXF 435/69.1; 435/320.1; 435/468; 435/419; 435/243; 435/252.3; 435/252.1;
 435/193; 435/252.34; 435/471; 435/183; 435/253.3; 800/278; 800/298;
 800/320.1; 800/317.2; 800/317.3; 800/320.3; 800/312; 800/306; 800/322;
 800/281; 536/23.2; 536/23.7; 530/350

L4 ANSWER 2 OF 6 USPATFULL
 AN 2001:214761 USPATFULL
 TI Plastic laminate
 IN Karhuketo, Hannu, Valkeakoski, Finland
 Korpela, Heikki, Valkeakoski, Finland
 PA UPM-Kymmene Oyj, Valkeakoski, Finland (non-U.S. corporation)
 PI US 6322899 B1 20011127
 WO 9901278 19990114
 AI US 1999-242586 19990506 (9)
 WO 1998-FI489 19980609
 19990506 PCT 371 date
 19990506 PCT 102(e) date
 PRAI FI 1997-2638 19970619
 DT Utility
 FS GRANTED
 LN.CNT 211
 INCL INCLM: 428/475.200
 INCLS: 428/479.300; 428/479.600; 428/480.000; 428/481.000; 428/532.000;
 428/533.000; 428/537.500
 NCL NCLM: 428/475.200
 NCLS: 428/479.300; 428/479.600; 428/480.000; 428/481.000; 428/532.000;
 428/533.000; 428/537.500
 IC [7]
 ICM: B32B027-08
 ICS: B32B027-10; B32B027-34; B32B027-36
 EXF 428/34.2; 428/34.3; 428/35.7; 428/480; 428/481; 428/532; 428/533;
 428/474.7; 428/475.2; 428/479.3; 428/479.6; 428/537.5
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 6 USPATFULL
 AN 2001:88607 USPATFULL
 TI Plastic Laminate
 IN Karhuketo, Hannu, Valkeakoski, Finland
 Korpela, Heikki, Valkeakoski, Finland

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PA UPM-KYMMENE OYJ (non-U.S. corporation)
PI US 2001000742 A1 20010503
AI US 2000-742589 A1 20001221 (9)
RLI Continuation of Ser. No. US 1999-242586, filed on 6 May 1999, ABANDONED
A 371 of International Ser. No. WO 1998-FI489, filed on 9 Jun 1998,
UNKNOWN
PRAI FI 1997-2638 19970619
DT Utility
FS APPLICATION
LN.CNT 219
INCL INCLM: 428/480.000
NCL NCLM: 428/480.000
IC [7]
ICM: B32B027-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 6 USPATFULL
AN 2000:84070 USPATFULL
TI Methods for isolating **polyhydroxyalkanoates** from plants
IN Martin, David P., Arlington, MA, United States
Peoples, Oliver P., Arlington, MA, United States
Williams, Simon F., Sherborn, MA, United States
PA Metabolix, Inc., Cambridge, MA, United States (U.S. corporation)
PI US 6083729 20000704
AI US 1995-548840 19951026 (8)
DT Utility
FS Granted
LN.CNT 978
INCL INCLM: 435/135.000
INCLS: 435/136.000; 528/354.000; 528/358.000; 528/361.000; 560/185.000
NCL NCLM: 435/135.000
NCLS: 435/136.000; 528/354.000; 528/358.000; 528/361.000; 560/185.000
IC [7]
ICM: C12P007-62
ICS: C12P007-40; C08G063-06; C07C069-66
EXF 435/135; 435/136; 528/361; 528/354; 528/358; 560/185
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 6 USPATFULL
AN 1998:157492 USPATFULL
TI Rhodospirillum rubrum poly-.beta.-hydroxyalkanoate synthase
IN Clemente, Thomas E., Lincoln, NE, United States
Kishore, Ganesh M., Creve Coeur, MO, United States
Mitsky, Timothy A., Maryland Heights, MO, United States
Stark, David M., Chesterfield, MO, United States
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
PI US 5849894 19981215
AI US 1996-756317 19961125 (8)
PRAI US 1995-7693 19951129 (60)
DT Utility
FS Granted
LN.CNT 1592
INCL INCLM: 536/023.200
INCLS: 435/183.000; 435/320.100; 435/252.300; 935/022.000
NCL NCLM: 536/023.200
NCLS: 435/183.000; 435/252.300; 435/320.100
IC [6]
ICM: C12N009-00
ICS: C12N015-00; C12N001-20; C07H021-04
EXF 435/183; 435/252.3; 435/320.1; 435/410; 536/23.2; 935/22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 6 USPATFULL
AN 1998:51918 USPATFULL

TI DNA sequence useful for the production of **polyhydroxyalkanoates**
IN Kruger, Niels, Billerbeck, Germany, Federal Republic of
Steinbuchel, Alexander, Munster, Germany, Federal Republic of
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
PI US 5750848 19980512
AI US 1996-700576 19960813 (8)
DT Utility
FS Granted
LN.CNT 1669
INCL INCLM: 800/205.000
INCLS: 435/172.300; 435/183.000; 435/252.300; 435/253.300; 435/320.100;
435/419.000; 435/252.340; 536/023.200; 536/023.700; 800/250.000;
800/DIG.009; 800/DIG.014; 800/DIG.015; 800/DIG.023; 800/DIG.026;
800/DIG.042; 800/DIG.043; 800/DIG.056; 800/DIG.058; 530/350.000
NCL NCLM: 800/281.000
NCLS: 435/183.000; 435/252.300; 435/252.340; 435/253.300; 435/320.100;
435/419.000; 530/350.000; 536/023.200; 536/023.700
IC [6]
ICM: A01H005-00
ICS: C12N001-20; C12N001-21; C12N005-14
EXF 530/350; 536/23.2; 536/23.7; 435/320.1; 435/410; 435/419; 435/243;
435/172.3; 435/183; 435/193; 435/252.3; 435/253.3; 435/252.34; 800/205;
800/250; 800/DIG.1; 800/DIG.14; 800/DIG.15; 800/DIG.23; 800/DIG.26;
800/DIG.42; 800/DIG.43; 800/DIG.56; 800/DIG.58
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS
AN 1991:606138 CAPLUS
DN 115:206138
TI Bacterial poly(3-hydroxyalkanoates)
AU Witholt, B.; Huisman, G. W.; Preusting, H.
CS Lab. Biochem., Groningen Biotechnol. Cent., Groningen, 9747 AG, Neth.
SO NATO ASI Ser., Ser. E (1990), 186(Novel Biodegrad. Microb. Polym.), 161-73
CODEN: NAESDI
DT Journal
LA English

L3 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:212919 CAPLUS
 DN 116:212919
 TI Production of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) in a
 recombinant Escherichia coli strain
 AU Slater, Steven; Gallaher, Thomas; Dennis, Douglas
 CS Dep. Mol. Biol. Microbiol., Case West. Reserve Univ., Cleveland, OH,
 44106-4960, USA
 SO Appl. Environ. Microbiol. (1992), 58(4), 1089-94
 CODEN: AEMIDF; ISSN: 0099-2240
 DT Journal
 LA English

=> d 13 8-10

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L3 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:212919 CAPLUS
 DN 116:212919
 TI Production of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) in a
 recombinant Escherichia coli strain
 AU Slater, Steven; Gallaher, Thomas; Dennis, Douglas
 CS Dep. Mol. Biol. Microbiol., Case West. Reserve Univ., Cleveland, OH,
 44106-4960, USA
 SO Appl. Environ. Microbiol. (1992), 58(4), 1089-94
 CODEN: AEMIDF; ISSN: 0099-2240
 DT Journal
 LA English

L3 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:126997 CAPLUS
 DN 116:126997
 TI Manufacture of hydroxybutyrate-hydroxyvalerate copolymers with amino
 acid-overproducing bacteria
 IN Byrom, David; Steinbuchel, Alexander
 PA Imperial Chemical Industries PLC, UK
 SO PCT Int. Appl., 10 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9118995	A1	19911212	WO 1991-EP978	19910524
	W: AU, CA, GB, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	CA 2083695	AA	19911126	CA 1991-2083695	19910524
	AU 9179708	A1	19911231	AU 1991-79708	19910524
	AU 652942	B2	19940915		
	EP 535012	A1	19930407	EP 1991-910223	19910524
	EP 535012	B1	19950913		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
	JP 05506784	T2	19931007	JP 1991-509524	19910524
	US 6080562	A	20000627	US 1992-949524	19921125
PRAI	GB 1990-11777	A	19900525		
	WO 1991-EP978	A	19910524		

L3 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:18156 CAPLUS
 DN 116:18156

=> d 13 1-23 au ti

- L3 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Savenkova, L.; Gercberga, Z.; Bibers, I.; Kalnin, M.
TI Effect of 3-hydroxy valerate content on some physical and mechanical properties of **polyhydroxyalkanoates** produced by *Azotobacter chroococcum*
- L3 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Page, W. J.; Bhanthumnavin, N.; Manchak, J.; Ruman, M.
TI Production of poly(.beta.-hydroxybutyrate-.beta.-hydroxyvalerate) copolymer from sugars by *Azotobacter salinestris*
- L3 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Park, Sang Kyu; Lee, Kang Tae; Kim, Youngback; Rhee, Young Ha
TI Biosynthesis of polyhydroxybutyrate and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by *Bacillus thuringiensis* R-510
- L3 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Volova, T. G.; Belyaeva, O. G.; Plotnikov, V. F.; Puzyr, A. P.
TI Biodegradability of microbial **polyhydroxyalkanoates**
- L3 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Cho, Kyung-Suk; Ryu, Hee Wook; Park, Chang-Ho; Goodrich, Philip R.
TI Poly(hydroxybutyrate-co-hydroxyvalerate) from swine waste liquor by *Azotobacter vinelandii* UWD
- L3 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2002 ACS
IN Cox, Michael Kenneth; Hammond, Timothy; Wood, John Christopher
TI Copolyesters
- L3 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2002 ACS
IN Bluhm, Terry L.; Marchessault, Robert H.; Fuller, Timothy J.
TI electrophotographic toners containing polyester resins
- L3 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Slater, Steven; Gallaher, Thomas; Dennis, Douglas
TI Production of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) in a recombinant *Escherichia coli* strain
- L3 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2002 ACS
IN Byrom, David; Steinbuchel, Alexander
TI Manufacture of hydroxybutyrate-hydroxyvalerate copolymers with amino acid-overproducing bacteria
- L3 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Chen, Guo Qiang; Koenig, Karl Heinz; Lafferty, Robert M.
TI Occurrence of poly-D(-)-3-hydroxyalkanoates in the genus *Bacillus*
- L3 ANSWER 11 OF 23 FSTA COPYRIGHT 2002 IFIS
AU Luzier, W. D.
TI Materials derived from biomass/biodegradable materials.
- L3 ANSWER 12 OF 23 USPATFULL
IN Kruger, Niels, Billerbeck, GERMANY, FEDERAL REPUBLIC OF
Steinbuchel, Alexander, Altenberje, GERMANY, FEDERAL REPUBLIC OF
TI DNA sequence useful for the production of **polyhydroxyalkanoates**
- L3 ANSWER 13 OF 23 USPATFULL
IN Karhuketo, Hannu, Valkeakoski, Finland
Korpela, Heikki, Valkeakoski, Finland
TI Plastic laminate
- L3 ANSWER 14 OF 23 USPATFULL

IN Karhuketo, Hannu, Valkeakoski, Finland
 TI Korpela, Heikki, Valkeakoski, Finland
 Plastic Laminate

L3 ANSWER 15 OF 23 USPATFULL
 IN Suhonen, Jouko, 663 Garth Ct., Yorktown Heights, NY, United States
 10598
 Schug, Jens, Im Mittelleimbach 11, CH-8041 Zurich, Switzerland
 TI Medical implant

L3 ANSWER 16 OF 23 USPATFULL
 IN Martin, David P., Arlington, MA, United States
 Peoples, Oliver P., Arlington, MA, United States
 Williams, Simon F., Sherborn, MA, United States
 TI Methods for isolating **polyhydroxyalkanoates** from plants

L3 ANSWER 17 OF 23 USPATFULL
 IN Clemente, Thomas E., Lincoln, NE, United States
 Kishore, Ganesh M., Creve Coeur, MO, United States
 Mitsky, Timothy A., Maryland Heights, MO, United States
 Stark, David M., Chesterfield, MO, United States
 TI Rhodospirillum rubrum poly-.beta.-hydroxyalkanoate synthase

L3 ANSWER 18 OF 23 USPATFULL
 IN Kruger, Niels, Billerbeck, Germany, Federal Republic of
 Steinbuchel, Alexander, Munster, Germany, Federal Republic of
 TI DNA sequence useful for the production of **polyhydroxyalkanoates**

L3 ANSWER 19 OF 23 USPATFULL
 IN Hashitani, Takafumi, Kawasaki, Japan
 Fujita, Shozo, Kawasaki, Japan
 Iijima, Makoto, Kawasaki, Japan
 Asano, Koji, Kawasaki, Japan
 TI Biodegradable resin molded article

L3 ANSWER 20 OF 23 USPATFULL
 IN Buchanan, Charles M., Bluff City, TN, United States
 Gardner, Robert M., Gray, TN, United States
 Wood, Matthew D., Kingsport, TN, United States
 White, Alan W., Kingsport, TN, United States
 Gedon, Steven C., Kingsport, TN, United States
 Barlow, Jr., Fred D., Kingsport, TN, United States
 TI Aliphatic-aromatic copolyesters and cellulose ester/polymer blends

L3 ANSWER 21 OF 23 USPATFULL
 IN Hashitani, Takafumi, Kawasaki, Japan
 Fujita, Shozo, Kawasaki, Japan
 Iijima, Makoto, Kawasaki, Japan
 Asano, Koji, Kawasaki, Japan
 TI Biodegradable resin molded article

L3 ANSWER 22 OF 23 USPATFULL
 IN Buchanan, Charles M., Bluff City, TN, United States
 Gardner, Robert M., Gray, TN, United States
 Wood, Matthew D., Kingsport, TN, United States
 White, Alan W., Kingsport, TN, United States
 Gedon, Steven C., Kingsport, TN, United States
 Barlow, Jr., Fred D., Kingsport, TN, United States
 TI Aliphatic-aromatic copolyesters and cellulose ester/polymer blends

L3 ANSWER 23 OF 23 USPATFULL
 IN Fuller, Timothy J., West Henrietta, NY, United States
 Marchessault, Robert H., Montreal, Canada
 Bluhm, Terry L., Oakville, Canada

TI Toner and developer compositions containing biodegradable
 semicrystalline polyesters

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L3 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Page, W. J.; Bhanthumnavin, N.; Manchak, J.; Ruman, M.
TI Production of poly(.beta.-hydroxybutyrate-.beta.-hydroxyvalerate)
copolymer from sugars by *Azotobacter salinestris*

L3 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Park, Sang Kyu; Lee, Kang Tae; Kim, Youngback; Rhee, Young Ha
TI Biosynthesis of polyhydroxybutyrate and poly(3-hydroxybutyrate-co-3-
hydroxyvalerate) by *Bacillus thuringiensis* R-510

L3 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Cho, Kyung-Suk; Ryu, Hee Wook; Park, Chang-Ho; Goodrich, Philip R.
TI Poly(hydroxybutyrate-co-hydroxyvalerate) from swine waste liquor by
Azotobacter vinelandii UWD

L3 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2002 ACS
IN Cox, Michael Kenneth; Hammond, Timothy; Wood, John Christopher
TI Copolyesters

L3 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Slater, Steven; Gallaher, Thomas; Dennis, Douglas
TI Production of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) in a
recombinant *Escherichia coli* strain

L3 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2002 ACS
IN Byrom, David; Steinbuchel, Alexander
TI Manufacture of hydroxybutyrate-hydroxyvalerate copolymers with amino
acid-overproducing bacteria

L3 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Chen, Guo Qiang; Koenig, Karl Heinz; Lafferty, Robert M.
TI Occurrence of poly-D(-)-3-hydroxyalkanoates in the genus *Bacillus*

TI Occurrence of poly-D(-)-3-hydroxyalkanoates in the genus *Bacillus*
AU Chen, Guo Qiang; Koenig, Karl Heinz; Lafferty, Robert M.
CS Inst. Biotechnol., Graz Univ. Technol., Graz, Austria
SO FEMS Microbiol. Lett. (1991), 84(2), 173-6
CODEN: FMLED7; ISSN: 0378-1097
DT Journal
LA English

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